



**Supplementary Figure 2.** Characterization of recombinant strains of (a) *M. tuberculosis* and (b) *M. bovis* BCG. (a) Screening of recombinant clones of *M. tuberculosis* over-expressing *ribA2* OE, *ribF* OE, *ribG* OE, *ribH* OE (B) Screening of recombinant clones of BCG over-expressing *ribH* OE. For screening colony PCR was performed on DNA isolated from recombinant clones using Kanamycin resistance gene ( $\text{kan}^r$ ) specific primers. DNA isolated from Wild type *M. tuberculosis* and BCG and no template control were used as negative controls. DNA from bacteria containing vector control and/or purified vector control plasmid carrying  $\text{kan}^r$  were used as the positive control. Amplification in clones or positive control results in a PCR product of 300bp.